

ADDITIONS TO THE CATALOG OF OHIO VASCULAR PLANTS FOR 1920.*

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In the following list are included a number of species new to the state, a number which have been in the catalog but not represented by specimens, and a considerable number which extend the known range of their distribution in the state. Because of its peculiar geographic position, Ohio has an unusual number of species which have their limits within its boundaries. It is hoped that the knowledge of the indigenous species will be rapidly increased so that it will be possible to publish accurate distribution maps of these plants.

Plant geography will probably be of much greater economic importance in the future than it has in the past and accurate data of the present distribution of plants will be of much value to the systematist, ecologist, agriculturist, and the plant geographer who wishes to interpret the present species distribution in relation to past migrations, especially, as these were affected by the glacial period. For such work state catalogs giving distribution notes by counties are very useful, for it thus becomes easy to trace out limits on the ordinary maps.

69. ***Pinus rigida*** Mill. Pitch Pine. Near Marietta, Washington County. W. V. Balduf.
70. ***Pinus virginiana*** Mill. Scrub Pine. Winterset, Guernsey County. T. L. Guyton. Near Marietta, Washington County. W. V. Balduf.
71. ***Pinus echinata*** Mill. Shortleaf Pine. Jackson Township, Pike County, near the Ross County line. "Confined to northeastern section, occupying ridges capped with heavy sandstone." Forest W. Dean. Jefferson Township, Scioto County, three miles south of the Pike County line. Forest W. Dean. Near Marietta, Washington County. W. V. Balduf.

*Papers from the Department of Botany, Ohio State University. No. 125.

76. **Taxus canadensis** Marsh. American Yew. Five miles east of Somerton, Belmont County. Emma E. Laughlin.
143. **Cyperus flavescens** L. Yellow Cyperus. Hillsboro, Highland County. Katie M. Roads.
340. **Eragrostis capillaris** (L.) Nees. Capillary Love-grass. Hillsboro, Highland County. Katie M. Roads.
385. **Sporobolus neglectus** Nash. Small Rush-grass. God's Garden, New Market Township, Highland County. Katie M. Roads.
403. **Muhlenbergia tenuiflora** (Willd.) B. S. P. Margaretta Ridge, Erie County. E. L. Moseley. Specimen in U. S. Herb. Reported by B. F. Bush.
461. Change name to **Cenchrus pauciflorus** Benth. As the species are now segregated, *C. tribuloides* L. is confined to the Atlantic coast.
466. **Holcus halapense** L. Johnson-grass. Near Hillsboro, Highland County. Katie M. Roads.
470. **Andropogon virginicus** L. Virginia Beard-grass. New Market Township, Highland County. Katie M. Roads.
472. **Coix lacryma-jobi** L. Job's-tears. Persistent after cultivation, Hillsboro, Highland County. Katie M. Roads.
482. **Allium tricoccum** Ait. Wild Leek. Put-in-Bay Island, Ottawa County. M. E. Stickney.
483. **Allium vineale** L. Field Garlic. Near Bridgeville, Muskingum County, and near Cambridge, Guernsey County. Mrs. Bayard Taylor.
499. **Chamaelirium luteum** (L.) Gr. Chamælirium. On black sandy loam. Mesophytic woods, Hazelwood, Hamilton County. Reported by E. Lucy Braun.
522. **Smilax echirrhata** (Engel.) Wats. Upright Smilax. Prairie Township, Franklin County. John H. Schaffner.
- 532.1. **Commelina communis** L. Asiatic Day-flower. A common weed in Columbus, Franklin County. John H. Schaffner. Specimens also from Lake, Cuyahoga, Montgomery and Clermont Counties.
533. **Commelina virginica** L. Read—No specimens in the herbarium. All so listed are *Commelina communis* L.

- 579a. **Blephariglottis psycodes grandiflora** (Bigel.). Orwell, Ashtabula County. Coll. E. E. Bogue, July 29, 1889.
629. **Aquilegia vulgaris** L. European Columbine. Escaped from cultivation, Columbus, Franklin County. John H. Schaffner.
- 633.1. **Anemone japonica** Sieb. & Zucc. Japanese Anemone. Escaped from cultivation and very persistent. Hillsboro, Highland County. Katie M. Roads.
- 639.1. **Atragene americana** Sims. Atragene. On Scioto River exposed limestone cliff. Delaware County, north of Franklin County line. Growing with *Thuja occidentalis* L. John H. Schaffner, Freda Detmers and Lillian E. Humphrey.
703. **Thlaspi arvense** L. Field Penny-cress. West Jefferson, Madison County. Mrs. Bayard Taylor.
708. **Cheirinia cheiranthoides** (L.) Link. Wormseed Mustard. Barnesville, Belmont County. Emma E. Laughlin.
714. **Conringia orientalis** (L.) Dum. Hare's-ear Mustard. Ironton, Lawrence County. Lillian E. Humphrey. Also Barnesville, Belmont County. Emma E. Laughlin.
733. **Cardamine rotundifolia** Mx. Roundleaf Bitter-cress. Ironton, Lawrence County. Lillian E. Humphrey.
739. **Dentaria diphylla** Mx. Two-leaf Toothwort. Ironton, Lawrence County. Lillian E. Humphrey.
741. **Dentaria heterophylla** Nutt. Slender Toothwort. Ironton, Lawrence County. Lillian E. Humphrey.
754. **Polonia graveolens** Raf. Clammy-weed. Put-in-Bay Island, Ottawa County. M. E. Stickney.
756. **Reseda luteola** L. Dyer's Mignonette. Persistent after cultivation. Hillsboro, Highland County. Katie M. Roads.
- 771.1. **Tribulus terrestris** L. Land Caltrop. Zygophyllaceæ. Caltrop Family. Waifs growing along railroad east of Barnesville, Belmont County. Emma E. Laughlin.
823. **Althæa officinalis** L. Marsh-mallow. Along ditch, near Delaware, Delaware County. Mrs. Bayard Taylor.
827. **Napæa dioica** L. Glade Mallow. Spring Valley Township, Greene County. Mrs. Bayard Taylor.

878. **Viola sororia** Willd. Woolly Blue Violet. Hillsboro, Highland County. Katie M. Roads.
933. **Allionia nyctaginea** Mx. Heartleaf Umbrella-wort. Columbus, Franklin County. John H. Schaffner.
1008. **Potentilla argentea** L. Silvery Cinquefoil. Dublin, Franklin County. John H. Schaffner.
1017. **Waldsteinia fragarioides** (Mx.) Tratt. Dry Strawberry. Five miles east of Somerton, Belmont Co. Emma E. Laughlin.
1034. **Filipendula rubra** (Hill.) Rob. Queen-of-the-prairie. Near Harmony, Clarke County. Mrs. Bayard Taylor.
1054. **Pyrus communis** L. Pear. Growing wild at margin of a wood along road near Lancaster, Fairfield County. John H. Schaffner.
1104. **Baptisia leucantha** T. & G. Large White Wild-indigo. Monroe Township, Madison County. Mrs. Bayard Taylor.
1126. **Psoralea onobrychis** Nutt. Sainfoin Psoralea. Near Rome, Franklin County. Mrs. Bayard Taylor.
1135. **Stylosanthes biflora** (L.) B. S. P. Change name to *Stylosanthes riparia* Kearney. Decumbent Pencil-flower. All of our specimens belong to this species.
1166. **Vicia sativa** L. Common Vetch. Brush Lake, Champaign County. John H. Schaffner.
- 1173.1. **Lathyrus latifolius** L. Everlasting Pea. Escaped from cultivation along road near Columbus, Franklin County. John H. Schaffner.
- 1180.1. **Strophostyles pauciflora** (Benth.) Wats. Small Wild Bean. On gravel railroad road-beds. Valley Junction, Hamilton County. E. Lucy Braun.
1187. **Micranthes pennsylvanica** (L.) Haw. Pennsylvania Saxifrage. Hillsboro, Highland County. Katie M. Roads.
1189. **Sullivantia sullivantii** (T. & G.) Britt. Sullivantia. Abundant at Fort Hill, Highland County. Katie M. Roads.
1190. **Tiarella cordifolia** L. False Miterwort. Ironton, Lawrence County. Lillian E. Humphrey.

1243. **Liquidambar styraciflua** L. Sweet-gum. In a wood near Hillsboro, Highland County. Heber Newell and Katie M. Roads.
1263. **Castanea dentata** (Marsh.) Borkh. Chestnut. On ravine slopes, glacial till soil. Milford, Clermont County. E. Lucy Braun.
- 1287.1. **Hicoria pecan** (Marsh.) Britt. Pecan. Indigenous on alluvial flats. Miami River, Symmes Corner, Butler County. E. Lucy Braun.
1344. **Raimannia laciniata** (Hill.) Rose. Cutleaf Evening-primrose. Barnesville, Belmont County. Emma E. Laughlin.
1356. **Myriophyllum heterophyllum** Mx. Variant-leaf Water-milfoil. Brush Lake, Champaign County. John H. Schaffner.
1383. **Dodecatheon meadia** L. Shooting-star. Ludlow Falls, Miami County. Coll. S. E. Horlacher.
1386. **Pyrola elliptica** Nutt. Shinleaf Wintergreen. Small patch on steep north-facing slope, yellow sandy earth, mesophytic woods. Hazelwood, Hamilton County. Reported by E. Lucy Braun.
1389. **Chimaphila maculata** (L.) Pursh. Spotted Pipsissewa. On black sandy soil, Mesophytic woods. Hazelwood, Hamilton County. E. Lucy Braun.
1420. **Phlox pilosa** L. Downy Phlox. Iron-ton, Lawrence County. Lillian E. Humphrey.
- 1432.1. **Convolvulus fraterniflorus** Mack. & Bush. Short-stalked Bindweed. West of Barnesville, Belmont County. Emma E. Laughlin.
- 1433.1. **Convolvulus repens** L. Trailing Bindweed. On prairie openings on bluffs. Miami-ville, Clermont County. N. Mildred Irwin.
1444. **Cuscuta paradoxa** Raf. Glomerate Dodder. Southwest of West Jefferson, Madison County. Mrs. Bayard Taylor.
1479. **Apocynum pubescens** R. Br. Velvet Dogbane. Put-in-Bay Island, Ottawa County. M. E. Stickney.
- 1497.1. **Nicotiana alata** Link & Otto. Flowering Tobacco. Persistent in Hillsboro, Highland County. Katie M. Roads.

1508. **Physalis pubescens** L. Low Hairy Ground-cherry. Hillsboro, Highland County. Katie M. Roads.
1513. **Solanum dulcamara** L. Bittersweet. Hillsboro, Highland County. Katie M. Roads.
1519. **Scrophularia leporella** Bickn. Hare Figwort. Ashtabula County. Collected by W. A. Kellerman in 1899.
1535. **Veronica anagallis-aquatica** L. Water Speedwell. In stagnant streams near Hillsboro, Highland County. Katie M. Roads.
1544. **Veronica agrestis** L. Garden Speedwell. On lawns, Carthage, Hamilton County. E. Lucy Braun.
1554. **Dasistoma laevigata** Raf. Entire-leaf False Foxglove. Fort Hill, Highland County. Katie M. Roads.
1604. **Onosmodium hispidissium** Mack. Shaggy False Gromwell. Ten miles southeast of Barnesville, Belmont County. Emma E. Laughlin.
1607. **Echium vulgare** L. Blueweed, Near Prospect, Marion County. Also in Radnor Township, Delaware County. Blue and also white forms. Mrs. Bayard Taylor.
1610. **Verbena angustifolia** Mx. Narrowleaf Vervain. Upper Arlington, Columbus, Franklin County. John H. Schaffner.
1646. **Cunila origanoides** (L.) Britt. American Dittany. Fort Hill, Highland County. Katie M. Roads.
1684. **Alyssum alyssoides** L. Yellow Alyssum. On dry gravel soil. California, Hamilton County. E. Lucy Braun.
1687. **Salvia lancifolia** Poir. Lance-leaf Sage. Near West Jefferson, Madison County. Mrs. Bayard Taylor.
1754. **Houstonia longifolia** Gært. Longleaf Houstonia. Put-in-Bay Island, Ottawa County. M. E. Stickney.
1760. **Diodia teres** Walt. Rough Buttonweed. Common in New Market Township, Highland County. Katie M. Roads.
1773. **Sherardia arvensis** L. Blue Field-madder. Put-in-Bay Island, Ottawa County. M. E. Stickney.
- 1810.1. **Campanula trachelium** L. Nettle-leaf Bellflower. West Jefferson, Madison County. From Europe. Mrs. Bayard Taylor.

1856. **Helianthus petiolaris** Nutt. Prairie Sunflower. In field near Hillsboro, Highland County. Katie M. Roads.
- 1874.1. **Cosmos bipinnatus** Cav. Cosmos. Along a road near Columbus, Franklin County. John H. Schaffner.
1880. **Silphium laciniatum** L. Eliminate the record from Madison County given in Additions to the Catalog of Ohio Vascular Plants for 1919. A mistake was made in identification. The plant is *Silphium terebinthinaceum pinnatifidum* (Ell.) Gr., see 1882a. below. An authentic specimen of *S. laciniatum* L. is in the herbarium from Ira, Summit County. Collected by James S. Hine.
- 1882a. **Silphium terebinthinaceum pinnatifidum** (Ell.) Gr. Common in several localities west of West Jefferson, Madison County. Specimens also from Springfield, Clarke County, collected by Mrs. E. J. Spence and from Plain City, Madison County, collected by W. A. Kellerman.
1886. **Helenium nudiflorum** Nutt. Purple-head Sneezeweed. Portsmouth, Scioto County. W. F. Gahm.
1888. **Boebera papposa** (Vent.) Rydb. Fetid Marigold. Canaan Township, Madison County. Common along road. John H. Schaffner.
- 1928.1. **Callistemma chinensis** (L.) Skeels. China-aster. Persistent after cultivation. Hillsboro, Highland County. Katie M. Roads.
- 1931.1. **Aster schreberi** Nees. Schreber's Aster. Clay banks, borders of woods, Milford, Clermont County. E. Lucy Braun.
1994. **Chrysanthemum parthenium** (L.) Pers. Common Feverfew. Put-in-Bay Island, Ottawa County. M. E. Stickney.
2005. **Artemisia pontica** L. Roman Wormwood. Escaped. Prairie Township, Franklin Co. John H. Schaffner.
2015. **Senecio vulgaris** L. Common Groundsel. Common as a weed in waste places west of Columbus, Franklin County. John H. Schaffner.
2043. **Lactuca saligna** L. Willow Lettuce. New Market Township, Highland County. Katie M. Roads.

- 2051.1. **Nabalus serpentarius** (Pursh) Hook. Lion's foot (Rattlesnake-root). Old Washington, Guernsey County. Emma E. Laughlin.
2056. **Hieracium paniculatum** L. Panicked Hawkweed. Ravine slopes, mesophytic woods. Hazelwood, Hamilton County. Reported by E. Lucy Braun.
2064. **Crepis capillaris** (L.) Wallr. Smooth Hawksbeard. Waifs in Columbus, Franklin County. John H. Schaffner.